**Why are cells small?**

**Surface Area (SA)**

\[ \text{SA} = \text{height} \times \text{width} \times \# \text{ of sides} \]

\[
\begin{align*}
\text{SA}_1 &= 1\text{mm} \\
\text{SA}_2 &= 2\text{mm} \\
\text{SA}_3 &= 4\text{mm}
\end{align*}
\]

**Volume (V)**

\[ \text{V} = \text{length} \times \text{width} \times \text{height} \]

\[
\begin{align*}
\text{V}_1 &= 1\text{mm} \\
\text{V}_2 &= 2\text{mm} \\
\text{V}_3 &= 4\text{mm}
\end{align*}
\]
Types of Solutions

Hypertonic

Isotonic

Hypotonic

Scanning, electronic copying, file sharing, redistributing, editing, selling, or posting this item (or any part thereof) on the Internet, or with others, is strictly prohibited. Violations are subject to the penalties of the Digital Millennium Copyright Act. © James Lyas (Bond with James)